

Application Serial No.: 10/644,541

Amdt. dated 1/31/05

Reply to Office Action of November 16, 2004

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application;

1. (Currently Amended) A self regulating rotor comprising:

~~at least~~ two cups that are each pivotally attached about a central axis such that they form a three dimensional shape when closed, and when rotated into an open orientation form an ~~s-shaped~~ S-shaped rotor, when viewed as a horizontal cross section;

a cup ~~shafts~~ shaft attached to each cup such that the cups can rotate from a closed shape to an open ~~s-shaped~~ S-shaped rotor;

~~at least one end plate is attached to the end of said cup shafts,~~
an end plate attached to each end of the cup shafts.

wherein said cup shafts are pivotally supported by said end plates;

a central shaft connecting said end plates on said central axis;

a rotational energy connecting element attached to said cup shafts,
for controlling simultaneous rotation of said cup ~~shafts, and~~ shafts.

a rotational speed sensor connected to said rotational energy connecting element for sensing the speed of rotation of said central shaft and for activating said rotational energy connecting element to rotate said cup shafts in response to changes in said sensed speed of rotation of said central ~~shaft.~~

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shaft; and

a clutch system attached to the rotor, with the clutch system comprising pulleys connected to the cup shafts, with the clutch system using the rotational energy of the rotating rotor to close the rotor cups into the closed shape.

2. (Cancel)
3. (Previously Presented) A rotor according to claim 1, further comprising a housing enclosing said self regulating rotor, said housing having intake and output openings.
4. (Previously Presented) A rotor according to claim 1, wherein said rotor has an adjustable diameter.
5. (Previously Presented) A rotor according to claim 1, wherein said central shaft is hollow.
6. (Previously Presented) A rotor according to claim 1, further comprising a braking device attached to the rotor, for slowing the rotation of the rotor.